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A Some wireless LAN adapters like Lucent Technologies' WaveLAN™ card use a time-duplex system, which means that a signal can not be simultaneously transmitted and received. However, the WaveLAN™ card employs two antennas in a diversity system as shown in Fig. 5. Namely, as shown in Fig. 5, the WaveLAN™ card 70 includes first and second antennas 72 and 74 connected to a diversity system 76. The input/output of the diversity system 76 is connected to a transmit/receive (T/R) switch 78, and the transmitter/receiver architecture 80 is connected to the T/R switch 78. When transmitting, the T/R switch 78 connects the transmitter portion of the transmitter/receiver architecture 80 with the antenna 72 through the diversity switching system 76. When receiving, the T/R switch 78 connects the receiver portion of the transmitter/receiver architecture 80 with the antennas 72 and 74 through the diversity switching system 76.

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A2 Through software or hardware modifications, the antennas operate as separate transmit and receiver antennas for performing transmission and reception simultaneously during the non-invasive measuring as shown in Fig. 6. Specifically, in the modified WaveLAN™ card according to one embodiment of the present invention, the T/R switch 78 is redesigned to operate in a non-invasive measuring mode such that, as shown in Fig. 6, the transmitter and receiver portions of the transmitter/receiver architecture 80 are each connected to a respective one of the first and second antennas 72 and 74. Fig. 6 is conceptual block diagram of the wireless LAN

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adapter's operation in the measuring mode, consequently, the T/R switch 78 has been eliminated  
from the figure for the sake of clarity.

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